Xianlin Han

List of Publications by Year in descending order

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	9264	10445
21,584	74	139
citations	h-index	g-index
236	236	20942
docs citations	times ranked	citing authors
	21,584 citations 236 docs citations	21,584 citations 74 h-index 236 docs citations 236 times ranked

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#	Article	IF	CITATIONS
1	Triglyceride accumulation protects against fatty acid-induced lipotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3077-3082.	7.1	1,622
2	Shotgun lipidomics: Electrospray ionization mass spectrometric analysis and quantitation of cellular lipidomes directly from crude extracts of biological samples. Mass Spectrometry Reviews, 2005, 24, 367-412.	5.4	1,020
3	Global analyses of cellular lipidomes directly from crude extracts of biological samples by ESI mass spectrometry: a bridge to lipidomics. Journal of Lipid Research, 2003, 44, 1071-1079.	4.2	763
4	Substantial sulfatide deficiency and ceramide elevation in very early Alzheimer's disease: potential role in disease pathogenesis. Journal of Neurochemistry, 2002, 82, 809-818.	3.9	520
5	Plasmalogen deficiency in early Alzheimer's disease subjects and in animal models: molecular characterization using electrospray ionization mass spectrometry. Journal of Neurochemistry, 2001, 77, 1168-1180.	3.9	505
6	Lipidomics for studying metabolism. Nature Reviews Endocrinology, 2016, 12, 668-679.	9.6	492
7	Lipid Rafts Are Enriched in Arachidonic Acid and Plasmenylethanolamine and Their Composition Is Independent of Caveolin-1 Expression:Â A Quantitative Electrospray Ionization/Mass Spectrometric Analysisâ€. Biochemistry, 2002, 41, 2075-2088.	2.5	475
8	Cellular mechanism of insulin resistance in nonalcoholic fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16381-16385.	7.1	475
9	Multiâ€dimensional mass spectrometryâ€based shotgun lipidomics and novel strategies for lipidomic analyses. Mass Spectrometry Reviews, 2012, 31, 134-178.	5.4	470
10	Lipidomics: Techniques, Applications, and Outcomes Related to Biomedical Sciences. Trends in Biochemical Sciences, 2016, 41, 954-969.	7.5	417
11	Altered bile acid profile associates with cognitive impairment in Alzheimer's disease—An emerging role for gut microbiome. Alzheimer's and Dementia, 2019, 15, 76-92.	0.8	396
12	ABCA1 Is Required for Normal Central Nervous System ApoE Levels and for Lipidation of Astrocyte-secreted apoE. Journal of Biological Chemistry, 2004, 279, 40987-40993.	3.4	376
13	Metabolomics in Early Alzheimer's Disease: Identification of Altered Plasma Sphingolipidome Using Shotgun Lipidomics. PLoS ONE, 2011, 6, e21643.	2.5	367
14	Metabolic network failures in Alzheimer's disease: A biochemical roadÂmap. Alzheimer's and Dementia, 2017, 13, 965-984.	0.8	362
15	Automated Lipid Identification and Quantification by Multidimensional Mass Spectrometry-Based Shotgun Lipidomics. Analytical Chemistry, 2009, 81, 4356-4368.	6.5	354
16	Quantitative Analysis and Molecular Species Fingerprinting of Triacylglyceride Molecular Species Directly from Lipid Extracts of Biological Samples by Electrospray Ionization Tandem Mass Spectrometry. Analytical Biochemistry, 2001, 295, 88-100.	2.4	343
17	Circadian Clocks and Feeding Time Regulate the Oscillations and Levels of Hepatic Triglycerides. Cell Metabolism, 2014, 19, 319-330.	16.2	326
18	Structural determination of picomole amounts of phospholipids via electrospray ionization tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 1995, 6, 1202-1210.	2.8	293

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19	Shotgun lipidomics: multidimensional MS analysis of cellular lipidomes. Expert Review of Proteomics, 2005, 2, 253-264.	3.0	249
20	Alterations in Myocardial Cardiolipin Content and Composition Occur at the Very Earliest Stages of Diabetes:  A Shotgun Lipidomics Study. Biochemistry, 2007, 46, 6417-6428.	2.5	249
21	Cardiolipin and electron transport chain abnormalities in mouse brain tumor mitochondria: lipidomic evidence supporting the Warburg theory of cancer. Journal of Lipid Research, 2008, 49, 2545-2556.	4.2	239
22	Cardiolipin Remodeling by ALCAT1 Links Oxidative Stress and Mitochondrial Dysfunction to Obesity. Cell Metabolism, 2010, 12, 154-165.	16.2	233
23	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. Journal of Lipid Research, 2018, 59, 2001-2017.	4.2	231
24	Selection of internal standards for accurate quantification of complex lipid species in biological extracts by electrospray ionization mass spectrometry—What, how and why?. Mass Spectrometry Reviews, 2017, 36, 693-714.	5.4	220
25	Toward fingerprinting cellular lipidomes directly from biological samples by two-dimensional electrospray ionization mass spectrometry. Analytical Biochemistry, 2004, 330, 317-331.	2.4	219
26	Novel advances in shotgun lipidomics for biology and medicine. Progress in Lipid Research, 2016, 61, 83-108.	11.6	211
27	Altered bile acid profile in mild cognitive impairment and Alzheimer's disease: Relationship to neuroimaging and CSF biomarkers. Alzheimer's and Dementia, 2019, 15, 232-244.	0.8	198
28	Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometric Analysis of Cellular Glycerophospholipids Enabled by Multiplexed Solvent Dependent Analyteâ^'Matrix Interactions. Analytical Chemistry, 2008, 80, 7576-7585.	6.5	197
29	Epidermal Growth Factor Receptors Are Localized to Lipid Rafts That Contain a Balance of Inner and Outer Leaflet Lipids. Journal of Biological Chemistry, 2005, 280, 26796-26804.	3.4	194
30	Characterization and Direct Quantitation of Ceramide Molecular Species from Lipid Extracts of Biological Samples by Electrospray Ionization Tandem Mass Spectrometry. Analytical Biochemistry, 2002, 302, 199-212.	2.4	177
31	Shotgun lipidomics of cardiolipin molecular species in lipid extracts of biological samples. Journal of Lipid Research, 2006, 47, 864-879.	4.2	177
32	Lipidomics at the Interface of Structure and Function in Systems Biology. Chemistry and Biology, 2011, 18, 284-291.	6.0	163
33	Lipid Alterations in the Earliest Clinically Recognizable Stage of Alzheimers Disease: Implication of the Role of Lipids in the Pathogenesis of Alzheimers Disease. Current Alzheimer Research, 2005, 2, 65-77.	1.4	161
34	Shotgun Lipidomics Identifies Cardiolipin Depletion in Diabetic Myocardium Linking Altered Substrate Utilization with Mitochondrial Dysfunctionâ€. Biochemistry, 2005, 44, 16684-16694.	2.5	161
35	Targeting DGAT1 Ameliorates Glioblastoma by Increasing Fat Catabolism and Oxidative Stress. Cell Metabolism, 2020, 32, 229-242.e8.	16.2	160
36	Microfluidicsâ€based electrospray ionization enhances the intrasource separation of lipid classes and extends identification of individual molecular species through multiâ€dimensional mass spectrometry: development of an automated highâ€throughput platform for shotgun lipidomics. Rapid Communications in Mass Spectrometry, 2008, 22, 2115-2124.	1.5	156

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37	Lipid analysis. , 2010, , .		156
38	Purification and characterization of astrocyte-secreted apolipoprotein E and J-containing lipoproteins from wild-type and human apoE transgenic mice. Neurochemistry International, 2001, 39, 415-425.	3.8	153
39	Fatty Acidomics: Global Analysis of Lipid Species Containing a Carboxyl Group with a Charge-Remote Fragmentation-Assisted Approach. Analytical Chemistry, 2013, 85, 9312-9320.	6.5	148
40	Alterations in Individual Molecular Species of Human Platelet Phospholipids during Thrombin Stimulation:Â Electrospray lonization Mass Spectrometry-Facilitated Identification of the Boundary Conditions for the Magnitude and Selectivity of Thrombin-Induced Platelet Phospholipid Hydrolysisâ€. Biochemistry, 1996, 35, 5822-5832.	2.5	146
41	Shotgun lipidomics of phosphoethanolamine-containing lipids in biological samples after one-step in situ derivatization. Journal of Lipid Research, 2005, 46, 1548-1560.	4.2	142
42	The Functional Characterization of Long Noncoding RNA <i>SPRY4-IT1</i> in Human Melanoma Cells. Oncotarget, 2014, 5, 8959-8969.	1.8	142
43	Accurate Quantification of Lipid Species by Electrospray Ionization Mass Spectrometry — Meets a Key Challenge in Lipidomics. Metabolites, 2011, 1, 21-40.	2.9	139
44	Plasmenylcholine and phosphatidylcholine membrane bilayers possess distinct conformational motifs. Biochemistry, 1990, 29, 4992-4996.	2.5	138
45	Structural Determination of Lysophospholipid Regioisomers by Electrospray Ionization Tandem Mass Spectrometryâ€. Journal of the American Chemical Society, 1996, 118, 451-457.	13.7	131
46	Lipidomic analysis and electron transport chain activities in C57BL/6J mouse brain mitochondria. Journal of Neurochemistry, 2008, 106, 299-312.	3.9	128
47	Multi-dimensional mass spectrometry-based shotgun lipidomics and the altered lipids at the mild cognitive impairment stage of Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 774-783.	2.4	126
48	Characterization and direct quantitation of cerebroside molecular species from lipid extracts by shotgun lipidomics. Journal of Lipid Research, 2005, 46, 163-175.	4.2	122
49	Factors influencing the electrospray intrasource separation and selective ionization of glycerophospholipids. Journal of the American Society for Mass Spectrometry, 2006, 17, 264-274.	2.8	120
50	Lipidomics Analyses Reveal Temporal and Spatial Lipid Organization and Uncover Daily Oscillations in Intracellular Organelles. Molecular Cell, 2016, 62, 636-648.	9.7	120
51	Sex and APOE ε4 genotype modify the Alzheimer's disease serum metabolome. Nature Communications, 2020, 11, 1148.	12.8	115
52	Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. Cell Metabolism, 2018, 28, 159-174.e11.	16.2	114
53	Cerebrospinal fluid sulfatide is decreased in subjects with incipient dementia. Annals of Neurology, 2003, 54, 115-119.	5.3	113
54	Novel Role for Apolipoprotein E in the Central Nervous System. Journal of Biological Chemistry, 2003, 278, 8043-8051.	3.4	112

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55	High-fat diet-induced upregulation of exosomal phosphatidylcholine contributes to insulin resistance. Nature Communications, 2021, 12, 213.	12.8	112
56	ABCA7 Deficiency Accelerates Amyloid-β Generation and Alzheimer's Neuronal Pathology. Journal of Neuroscience, 2016, 36, 3848-3859.	3.6	109
57	Alterations in lipid homeostasis of mouse dorsal root ganglia induced by apolipoprotein E deficiency: a shotgun lipidomics study. Journal of Neurochemistry, 2006, 101, 57-76.	3.9	103
58	Alkaline methanolysis of lipid extracts extends shotgun lipidomics analyses to the low-abundance regime of cellular sphingolipids. Analytical Biochemistry, 2007, 371, 135-145.	2.4	102
59	Unremodeled and Remodeled Cardiolipin Are Functionally Indistinguishable in Yeast. Journal of Biological Chemistry, 2014, 289, 1768-1778.	3.4	100
60	Dysfunctional cardiac mitochondrial bioenergetic, lipidomic, and signaling in a murine model of Barth syndrome. Journal of Lipid Research, 2013, 54, 1312-1325.	4.2	98
61	Tutorial on lipidomics. Analytica Chimica Acta, 2019, 1061, 28-41.	5.4	97
62	Diabetes-induced changes in specific lipid molecular species in rat myocardium. Biochemical Journal, 2000, 352, 79-89.	3.7	96
63	Potential mechanisms contributing to sulfatide depletion at the earliest clinically recognizable stage of Alzheimer's disease: a tale of shotgun lipidomics. Journal of Neurochemistry, 2007, 103, 171-179.	3.9	96
64	Impaired mitochondrial fat oxidation induces adaptive remodeling of muscle metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3300-9.	7.1	96
65	Neurolipidomics: challenges and developments. Frontiers in Bioscience - Landmark, 2007, 12, 2601.	3.0	95
66	Systematic analysis of choline-containing phospholipids using multi-dimensional mass spectrometry-based shotgun lipidomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2924-2936.	2.3	86
67	Recommendations for good practice in MS-based lipidomics. Journal of Lipid Research, 2021, 62, 100138.	4.2	85
68	Caloric Restriction Results in Phospholipid Depletion, Membrane Remodeling, and Triacylglycerol Accumulation in Murine Myocardiumâ€. Biochemistry, 2004, 43, 15584-15594.	2.5	84
69	Shotgun Metabolomics Approach for the Analysis of Negatively Charged Water-Soluble Cellular Metabolites from Mouse Heart Tissue. Analytical Chemistry, 2007, 79, 6629-6640.	6.5	84
70	Specific changes of sulfatide levels in individuals with preâ€clinical Alzheimer's disease: an early event in disease pathogenesis. Journal of Neurochemistry, 2013, 127, 733-738.	3.9	84
71	A role for long-chain acyl-CoA synthetase-4 (ACSL4) in diet-induced phospholipid remodeling and obesity-associated adipocyte dysfunction. Molecular Metabolism, 2018, 9, 43-56.	6.5	84
72	Identification and Quantitation of Unsaturated Fatty Acid Isomers by Electrospray Ionization Tandem Mass Spectrometry: A Shotgun Lipidomics Approach. Analytical Chemistry, 2011, 83, 4243-4250.	6.5	83

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73	Characterization of oxysterols by electrospray ionization tandem mass spectrometry after one-step derivatization with dimethylglycine. Rapid Communications in Mass Spectrometry, 2007, 21, 141-152.	1.5	82
74	A Role for Peroxisome Proliferator-activated Receptor Î ³ Coactivator 1 (PGC-1) in the Regulation of Cardiac Mitochondrial Phospholipid Biosynthesis. Journal of Biological Chemistry, 2014, 289, 2250-2259.	3.4	80
75	Macrophage CGI-58 Deficiency Activates ROS-Inflammasome Pathway to Promote Insulin Resistance in Mice. Cell Reports, 2014, 7, 223-235.	6.4	80
76	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. Nature Communications, 2020, 11, 5698.	12.8	76
77	Potential Adverse Effects of Prolonged Sevoflurane Exposure on Developing Monkey Brain: From Abnormal Lipid Metabolism to Neuronal Damage. Toxicological Sciences, 2015, 147, 562-572.	3.1	74
78	Shotgun lipidomics in substantiating lipid peroxidation in redox biology: Methods and applications. Redox Biology, 2017, 12, 946-955.	9.0	73
79	Selective desorption/ionization of sulfatides by MALDI-MS facilitated using 9-aminoacridine as matrix. Journal of Lipid Research, 2010, 51, 1599-1609.	4.2	72
80	Phosphatidylethanolamine made in the inner mitochondrial membrane is essential for yeast cytochrome bc1 complex function. Nature Communications, 2019, 10, 1432.	12.8	72
81	Apolipoprotein E mediates sulfatide depletion in animal models of Alzheimer's disease. Neurobiology of Aging, 2010, 31, 1188-1196.	3.1	70
82	A review of lipidomic technologies applicable to sphingolipidomics and their relevant applications. European Journal of Lipid Science and Technology, 2009, 111, 39-52.	1.5	69
83	Effect of high fat diet on phenotype, brain transcriptome and lipidome in Alzheimer's model mice. Scientific Reports, 2017, 7, 4307.	3.3	69
84	Abundance of triacylglycerols in ganglia and their depletion in diabetic mice: implications for the role of altered triacylglycerols in diabetic neuropathy. Journal of Neurochemistry, 2006, 97, 1288-1300.	3.9	68
85	Cardiolipin remodeling in diabetic heart. Chemistry and Physics of Lipids, 2014, 179, 75-81.	3.2	68
86	Applications of mass spectrometry for cellular lipid analysis. Molecular BioSystems, 2015, 11, 698-713.	2.9	65
87	The mitochondria-targeted peptide SS-31 binds lipid bilayers and modulates surface electrostatics as a key component of its mechanism of action. Journal of Biological Chemistry, 2020, 295, 7452-7469.	3.4	65
88	Multidimensional Mass Spectrometry-Based Shotgun Lipidomics. Methods in Molecular Biology, 2014, 1198, 203-220.	0.9	65
89	Shotgun Lipidomics Identifies a Paired Rule for the Presence of Isomeric Ether Phospholipid Molecular Species. PLoS ONE, 2007, 2, e1368.	2.5	64
90	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. Journal of Lipid Research, 2014, 55, 2458-2470.	4.2	64

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91	Furan fatty acids – Beneficial or harmful to health?. Progress in Lipid Research, 2017, 68, 119-137.	11.6	63
92	Dynamic simulation of cardiolipin remodeling: greasing the wheels for an interpretative approach to lipidomics. Journal of Lipid Research, 2010, 51, 2153-2170.	4.2	62
93	A Soluble Fluorescent Binding Assay Reveals PIP2 Antagonism of TREK-1 Channels. Cell Reports, 2017, 20, 1287-1294.	6.4	62
94	Functional lipidomics: the roles of specialized lipids and lipid–protein interactions in modulating neuronal function. Prostaglandins and Other Lipid Mediators, 2005, 77, 52-64.	1.9	61
95	The foundations and development of lipidomics. Journal of Lipid Research, 2022, 63, 100164.	4.2	61
96	Characterization and Quantification of Diacylglycerol Species in Biological Extracts after One-Step Derivatization: A Shotgun Lipidomics Approach. Analytical Chemistry, 2014, 86, 2146-2155.	6.5	60
97	Quantitative profiling and pattern analysis of triacylglycerol species in Arabidopsis seeds by electrospray ionization mass spectrometry. Plant Journal, 2014, 77, 160-172.	5.7	59
98	Identification of Naturally Occurring Fatty Acids of the Myelin Sheath That Resolve Neuroinflammation. Science Translational Medicine, 2012, 4, 137ra73.	12.4	58
99	Cytochrome b5 reductase and the control of lipid metabolism and healthspan. Npj Aging and Mechanisms of Disease, 2016, 2, 16006.	4.5	57
100	Phospholipids of APOE lipoproteins activate microglia in an isoform-specific manner in preclinical models of Alzheimer's disease. Nature Communications, 2021, 12, 3416.	12.8	57
101	Integrative metabolomicsâ€genomics approach reveals key metabolic pathways and regulators of Alzheimer's disease. Alzheimer's and Dementia, 2022, 18, 1260-1278.	0.8	57
102	MicroRNA-211 Regulates Oxidative Phosphorylation and Energy Metabolism in Human Vitiligo. Journal of Investigative Dermatology, 2017, 137, 1965-1974.	0.7	55
103	Bis(monoacylglycero)phosphate: a secondary storage lipid in the gangliosidoses. Journal of Lipid Research, 2015, 56, 1005-1006.	4.2	54
104	Quality control requirements for the correct annotation of lipidomics data. Nature Communications, 2021, 12, 4771.	12.8	54
105	Dramatic Accumulation of Triglycerides and Precipitation of Cardiac Hemodynamic Dysfunction during Brief Caloric Restriction in Transgenic Myocardium Expressing Human Calcium-independent Phospholipase A2Î3. Journal of Biological Chemistry, 2007, 282, 9216-9227.	3.4	53
106	Shotgun Lipidomics Analysis of 4-Hydroxyalkenal Species Directly from Lipid Extracts after One-Step in Situ Derivatization. Analytical Chemistry, 2012, 84, 4580-4586.	6.5	53
107	Adult-onset CNS myelin sulfatide deficiency is sufficient to cause Alzheimer's disease-like neuroinflammation and cognitive impairment. Molecular Neurodegeneration, 2021, 16, 64.	10.8	52
108	MondoA coordinately regulates skeletal myocyte lipid homeostasis and insulin signaling. Journal of Clinical Investigation, 2016, 126, 3567-3579.	8.2	52

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109	Hepatic ketogenic insufficiency reprograms hepatic glycogen metabolism and the lipidome. JCI Insight, 2018, 3, .	5.0	51
110	Accumulation of Unsaturated Acylcarnitine Molecular Species During Acute Myocardial Ischemia: Metabolic Compartmentalization of Products of Fatty Acyl Chain Elongation in the Acylcarnitine Pool. Biochemistry, 1996, 35, 7903-7909.	2.5	50
111	Sequential Ordered Fatty Acid α Oxidation and Δ9 Desaturation Are Major Determinants of Lipid Storage and Utilization in Differentiating Adipocytes. Biochemistry, 2004, 43, 5033-5044.	2.5	50
112	Bendavia restores mitochondrial energy metabolism gene expression and suppresses cardiac fibrosis in the border zone of the infarcted heart. Life Sciences, 2015, 141, 170-178.	4.3	50
113	Oxidative stress leads to reduction of plasmalogen serving as a novel biomarker for systemic lupus erythematosus. Free Radical Biology and Medicine, 2016, 101, 475-481.	2.9	50
114	Semisynthesis and purification of homogeneous plasmenylcholine molecular species. Analytical Biochemistry, 1992, 200, 119-124.	2.4	49
115	Targeted metabolomics and medication classification data from participants in the ADNI1 cohort. Scientific Data, 2017, 4, 170140.	5.3	49
116	MiR-124 acts as a tumor suppressor by inhibiting the expression of sphingosine kinase 1 and its downstream signaling in head and neck squamous cell carcinoma. Oncotarget, 2017, 8, 25005-25020.	1.8	47
117	Strategies to Improve/Eliminate the Limitations in Shotgun Lipidomics. Proteomics, 2020, 20, e1900070.	2.2	47
118	Novel molecular insights into the critical role of sulfatide in myelin maintenance/function. Journal of Neurochemistry, 2016, 139, 40-54.	3.9	46
119	The Pathogenic Implication of Abnormal Interaction Between Apolipoprotein E Isoforms, Amyloid-beta Peptides, and Sulfatides in Alzheimer's Disease. Molecular Neurobiology, 2010, 41, 97-106.	4.0	45
120	Mitochondria-Targeted Antioxidant Prevents Cardiac Dysfunction Induced by Tafazzin Gene Knockdown in Cardiac Myocytes. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-12.	4.0	45
121	Comprehensive and Quantitative Analysis of Lysophospholipid Molecular Species Present in Obese Mouse Liver by Shotgun Lipidomics. Analytical Chemistry, 2015, 87, 4879-4887.	6.5	44
122	The cardiolipin-binding peptide elamipretide mitigates fragmentation of cristae networks following cardiac ischemia reperfusion in rats. Communications Biology, 2020, 3, 389.	4.4	43
123	APOE2 orchestrated differences in transcriptomic and lipidomic profiles of postmortem AD brain. Alzheimer's Research and Therapy, 2019, 11, 113.	6.2	42
124	Enhanced coverage of lipid analysis and imaging by matrix-assisted laser desorption/ionization mass spectrometry via a strategy with an optimized mixture of matrices. Analytica Chimica Acta, 2018, 1000, 155-162.	5.4	39
125	Simulation of triacylglycerol ion profiles: bioinformatics for interpretation of triacylglycerol biosynthesis. Journal of Lipid Research, 2013, 54, 1023-1032.	4.2	38
126	Oligomeric amyloid-beta induces MAPK-mediated activation of brain cytosolic and calcium-independent phospholipase A2 in a spatial-specific manner. Acta Neuropathologica Communications, 2017, 5, 56.	5.2	38

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127	Impaired Mitochondrial Energetics Characterize Poor Early Recovery of Muscle Mass Following Hind Limb Unloading in Old Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1313-1322.	3.6	37
128	Endosomes and lysosomes play distinct roles in sulfatide-induced neuroblastoma apoptosis: potential mechanisms contributing to abnormal sulfatide metabolism in related neuronal diseases. Biochemical Journal, 2008, 410, 81-92.	3.7	36
129	Lipidomics Revealed Idiopathic Pulmonary Fibrosis-Induced Hepatic Lipid Disorders Corrected with Treatment of Baicalin in a Murine Model. AAPS Journal, 2015, 17, 711-722.	4.4	36
130	Improved Butanol–Methanol (BUME) Method by Replacing Acetic Acid for Lipid Extraction of Biological Samples. Lipids, 2016, 51, 887-896.	1.7	36
131	Accurate mass searching of individual lipid species candidates from highâ€resolution mass spectra for shotgun lipidomics. Rapid Communications in Mass Spectrometry, 2014, 28, 2201-2210.	1.5	33
132	Comprehensive and Quantitative Analysis of Polyphosphoinositide Species by Shotgun Lipidomics Revealed Their Alterations in <i>db/db</i> Mouse Brain. Analytical Chemistry, 2016, 88, 12137-12144.	6.5	33
133	Strategy for Quantitative Analysis of Isomeric Bis(monoacylglycero)phosphate and Phosphatidylglycerol Species by Shotgun Lipidomics after One-Step Methylation. Analytical Chemistry, 2017, 89, 8490-8495.	6.5	33
134	Shotgun Lipidomics Revealed Altered Profiles of Serum Lipids in Systemic Lupus Erythematosus Closely Associated with Disease Activity. Biomolecules, 2018, 8, 105.	4.0	33
135	Novel strategies for enhancing shotgun lipidomics for comprehensive analysis of cellular lipidomes. TrAC - Trends in Analytical Chemistry, 2019, 120, 115330.	11.4	33
136	Insulin resistance is mechanistically linked to hepatic mitochondrial remodeling in non-alcoholic fatty liver disease. Molecular Metabolism, 2021, 45, 101154.	6.5	33
137	High-Throughput Lipidomic and Transcriptomic Analysis To Compare SP2/0, CHO, and HEK-293 Mammalian Cell Lines. Analytical Chemistry, 2017, 89, 1477-1485.	6.5	31
138	Is the clinical lipidomics a potential goldmine?. Cell Biology and Toxicology, 2018, 34, 421-423.	5.3	31
139	RECOGNITION AND AVOIDANCE OF ION SOURCEâ€GENERATED ARTIFACTS IN LIPIDOMICS ANALYSIS. Mass Spectrometry Reviews, 2022, 41, 15-31.	5.4	30
140	Sensitive analysis of fatty acid esters of hydroxy fatty acids in biological lipid extracts by shotgun lipidomics after one-step derivatization. Analytica Chimica Acta, 2020, 1105, 105-111.	5.4	30
141	Comprehensive genetic analysis of the human lipidome identifies loci associated with lipid homeostasis with links to coronary artery disease. Nature Communications, 2022, 13, .	12.8	30
142	Analytical challenges of shotgun lipidomics at different resolution of measurements. TrAC - Trends in Analytical Chemistry, 2019, 121, 115697.	11.4	27
143	Restoring mitochondrial superoxide levels with elamipretide (MTP-131) protects db/db mice against progression of diabetic kidney disease. Journal of Biological Chemistry, 2020, 295, 7249-7260.	3.4	27
144	Early disruption of nerve mitochondrial and myelin lipid homeostasis in obesity-induced diabetes. JCI Insight, 2020, 5, .	5.0	27

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145	Lipid profile of platelets and platelet-derived microparticles in ovarian cancer. BBA Clinical, 2016, 6, 76-81.	4.1	26
146	Discovering a critical transition state from nonalcoholic hepatosteatosis to nonalcoholic steatohepatitis by lipidomics and dynamical network biomarkers. Journal of Molecular Cell Biology, 2016, 8, 195-206.	3.3	26
147	Enhanced defense against ferroptosis ameliorates cognitive impairment and reduces neurodegeneration in 5xFAD mice. Free Radical Biology and Medicine, 2022, 180, 1-12.	2.9	26
148	Oxidative stress-induced aberrant lipid metabolism is an important causal factor for dysfunction of immunocytes from patients with systemic lupus erythematosus. Free Radical Biology and Medicine, 2021, 163, 210-219.	2.9	25
149	Overview of Lipidomic Analysis of Triglyceride Molecular Species in Biological Lipid Extracts. Journal of Agricultural and Food Chemistry, 2021, 69, 8895-8909.	5.2	24
150	Chemical and magnetic inequivalence of glycerol protons in individual subclasses of choline glycerophospholipids: implications for subclass-specific changes in membrane conformational states. Journal of the American Chemical Society, 1991, 113, 7104-7109.	13.7	23
151	Profiling and relative quantification of phosphatidylethanolamine based on acetone stable isotope derivatization. Analytica Chimica Acta, 2016, 902, 142-153.	5.4	22
152	MondoA drives muscle lipid accumulation and insulin resistance. JCI Insight, 2019, 4, .	5.0	22
153	Synthesis and Biological Evaluation of Antimetastatic Agents Predicated upon Dihydromotuporamine C and Its Carbocyclic Derivatives. Journal of Medicinal Chemistry, 2014, 57, 4023-4034.	6.4	21
154	Serum metabolites associated with brain amyloid beta deposition, cognition and dementia progression. Brain Communications, 2021, 3, fcab139.	3.3	21
155	Lipidomics Revealed Aberrant Metabolism of Lipids Including FAHFAs in Renal Tissue in the Progression of Lupus Nephritis in a Murine Model. Metabolites, 2021, 11, 142.	2.9	21
156	Sphingolipid Metabolic Pathway Impacts Thiazide Diuretics Blood Pressure Response: Insights From Genomics, Metabolomics, and Lipidomics. Journal of the American Heart Association, 2018, 7, .	3.7	19
157	A Practical Approach for Determination of Mass Spectral Baselines. Journal of the American Society for Mass Spectrometry, 2011, 22, 2090-9.	2.8	18
158	Lipidomics reveals a systemic energy deficient state that precedes neurotoxicity in neonatal monkeys after sevoflurane exposure. Analytica Chimica Acta, 2018, 1037, 87-96.	5.4	16
159	<i>APOE</i> ε2 resilience for Alzheimer's disease is mediated by plasma lipid species: Analysis of three independent cohort studies. Alzheimer's and Dementia, 2022, 18, 2151-2166.	0.8	16
160	Lipidomics for precision medicine and metabolism: A personal view. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 804-807.	2.4	15
161	Lipidomics Profiling of Myelin. Methods in Molecular Biology, 2018, 1791, 37-50.	0.9	14
162	Reversible deficits in apical transporter trafficking associated with deficiency in diacylglycerol acyltransferase. Traffic, 2018, 19, 879-892.	2.7	14

#	Article	IF	CITATIONS
163	Towards precision medicine: defining and characterizing adipose tissue dysfunction to identify early immunometabolic risk in symptom-free adults from the GEMM family study. Adipocyte, 2020, 9, 153-169.	2.8	13
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